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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/051,970	01/18/2002	Bruce A. Gnade	4380.000300/KDG	1567
· · · · · · · · · · · · · · · · · · ·	590 12/01/2004		EXAMINER	
WILLIAMS, MORGAN & AMERSON, P.C. 10333 RICHMOND, SUITE 1100			MAYEKAR, KISHOR	
HOUSTON, T	X 77042		ART UNIT	PAPER NUMBER
			1753	
			DATE MAILED: 12/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	MIR			
	10/051,970	GNADE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kishor Mayekar	1753				
The MAILING DATE of this communication app			- 224			
Period for Reply			,			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from Cause the confliction to be apply and ARABONE.	nely filed s will be considered timely. the mailing date of this comm	unication.			
Status						
1) Responsive to communication(s) filed on 13 Se	eptember 2004.	,				
	action is non-final.					
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the mo	erits is			
closed in accordance with the practice under Ex	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>11-60</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>11-60</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.	•				
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction	n is required if the drawing(s) is obje	ected to. See 37 CFR 1	121(d).			
11)☐ The oath or declaration is objected to by the Exa	miner. Note the attached Office /	Action or form PTO-1	52.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign p a) All b) Some * c) None of:	riority under 35 U.S.C. § 119(a)-	(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority	y documents have been received	l in this National Stag	je			
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	the certified copies not received					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary (P	PTO-413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Date 5) Notice of Informal Pate					
Paper No(s)/Mail Date	6) Other:	Sitt Application (1 10-102)				

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DETAILED ACTION

Claim Rejections - 35 USC \$ 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 11, 14, 16, 19, 21, 24, 26, 29, 41, 44, 46 and 49 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by CHALAMALA et al. (first publication with H_2O interaction), for reasons as of record.
- 3. Claims 11, 14, 16, 19, 21, 24, 26, 29, 41, 44, 46 and 49 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by CHALAMALA et al. (second publication with O_2 interaction), for reasons as of record.
- 4. Claims 12, 13, 17, 18, 22, 23, 25, 27, 28, 30-40, 42, 43, 45, 47, 48 and 51-60 stand rejected under 35 U.S.C. 103(a) as being unpatentable over either of publication 1 or 2 in view of Applicant's admission, for reasons as of record.

Response to Arguments

Applicant's arguments filed 13 August 2004 have been fully considered but 5. they are not persuasive.

In response to Applicant's argument that the cited references fail to describe or suggest reacting at least one radical species with at least one of a chemical and biological toxin, since the references discloses the step of interacting of oxygen with a molybdenum (a substance used in a chemical process or for producing a chemical effect) in the second publication and the interact of oxygen with a molybdenum and of hydrogen with the oxides in the first publication (paragraph crossing left and right columns of page 304), the references does teach the step of reacting the at least one radical species with a chemical.

As to the argument on the rejected claims 21, 26, 31, 36,41, 46, 51 and 56, the same is applied and further the references discloses the steps of exposing a low-power field emitter array to a chemical H2O or O2 and the step of dissociating (or ionizing) the chemical (lines 3-5 of the first full paragraph in page 303 of the first publication).

Conclusion

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6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kishor Mayekar Primary Examiner Art Unit 1753